

FIG. 1

101

Sampling

FIG. 2

200

Triangle Elements
Matrices: TI, TR

201

Relate Mate Flag
Matrix: FM

202

12 Geometrical
Parameters

204

Finding The Max.
Weighting Value
Dir.Triangle Coarse
MatchingCalculating
Weighting Value

203



Convert Coordinate

205

206

Calculating The
Similarity

207

Threshold

Not

Similar

T09001-4T0400F

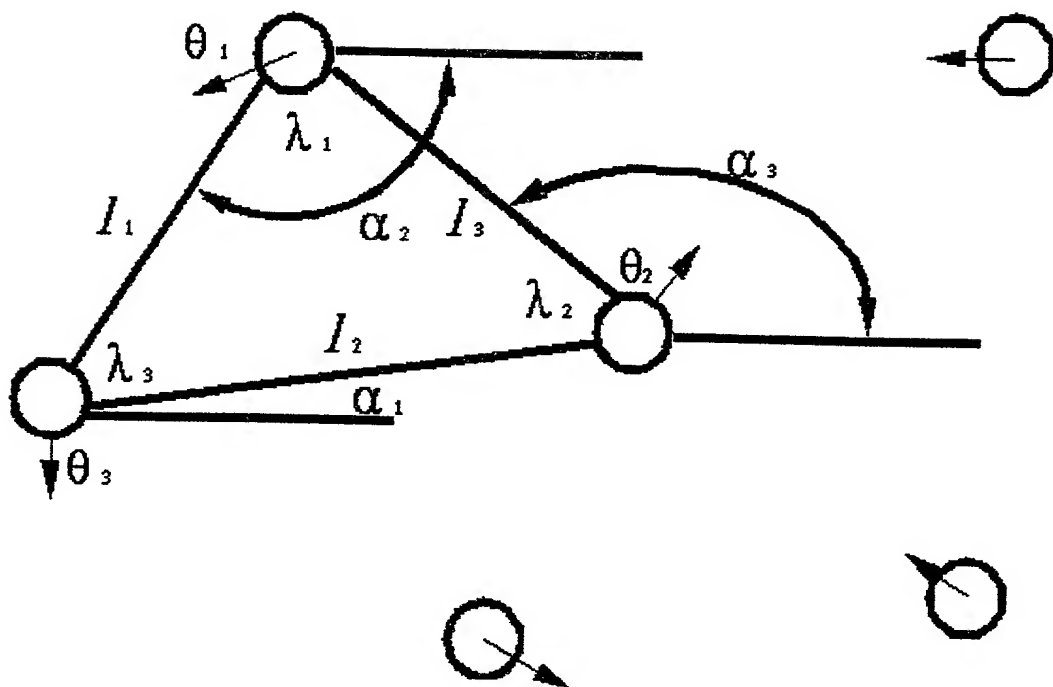


FIG. 3

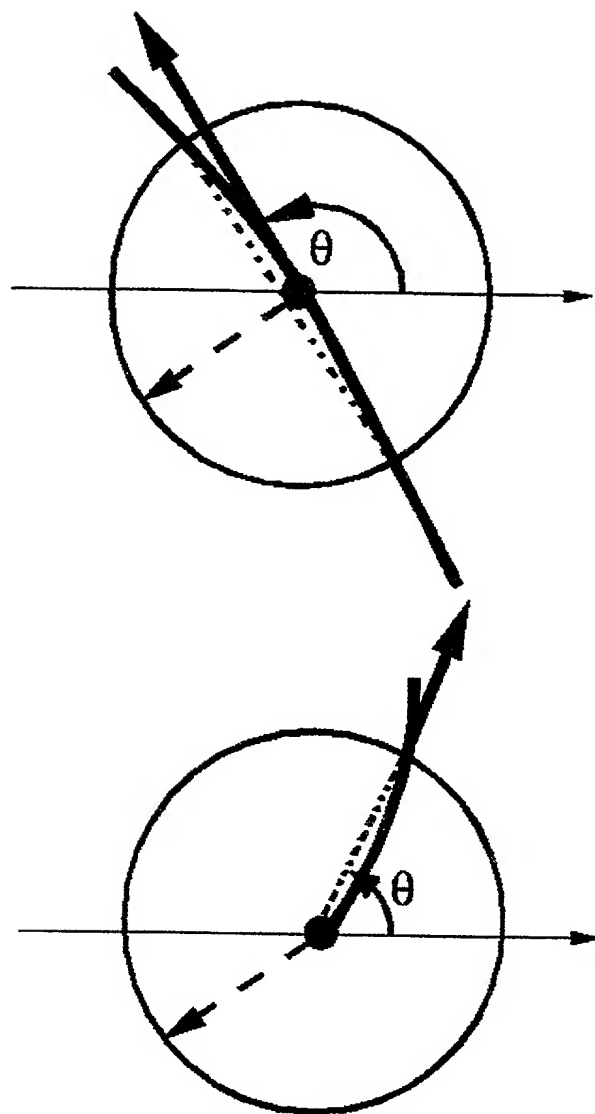


FIG. 4

Similar
Pattern A (Test Pattern)

X	Y	Dir.
16	17	0
124	36	-157
161	44	-157
116	62	180
157	77	-135
170	78	45
145	79	-157
119	102	180
54	104	135
96	107	-45
195	111	45
83	114	112
134	126	-157
25	127	135
96	133	-67
47	140	90
117	157	67
182	157	-112
29	158	112
134	193	-135
50	194	90
179	203	-135
30	215	90
64	224	67
149	227	-135
160	231	45

FIG. 5(a)

Similar
Pattern B (Reference Pattern)

X	Y	Dir.
90	21	-45
67	28	-67
161	32	-157
110	50	180
196	64	45
169	66	67
145	69	-157
102	76	157
51	81	135
116	83	180
95	93	-45
64	99	-67
193	99	67
109	114	135
138	114	-157
93	120	-67
65	125	112
28	143	112
115	145	67
179	145	-112
42	117	67
130	-178	-135
174	190	-135
146	214	-135
60	219	-112
194	220	-157
121	225	-157
83	227	-135

FIG. 5(b)

Non-similar
Pattern C (Test Pattern)

X	Y	Dir.
182	21	22
12	22	157
115	36	0
188	36	-157
150	39	180
189	48	22
102	58	135
152	79	-157
50	80	-45
138	86	180
20	91	135
193	105	45
102	111	135
139	111	180
83	127	-45
119	137	135
154	146	-135
214	154	67
106	156	112
107	179	-67
132	183	135
186	187	112
162	190	-67
100	196	-45
145	199	135
178	200	-67
78	204	-45
62	212	180
161	215	135
53	216	-45
176	216	-67
133	218	135

FIG. 5(c)

Non - similar
Pattern D (Reference Pattern)

X	Y	Dir.
83	27	-67
126	40	-22
134	57	157
62	58	-67
149	64	-22
161	78	22
92	104	112
55	108	112
155	111	22
198	111	45
178	125	67
45	130	12
116	137	90
207	138	67
163	144	112
120	152	-135
90	157	67
180	161	90
113	167	45
107	176	45
206	179	90
49	183	67
166	186	112
115	191	-135
93	192	45
192	194	90
21	198	67
162	201	-67
105	204	-135
193	225	90
102	230	-157
61	231	-135

FIG. 5(d)

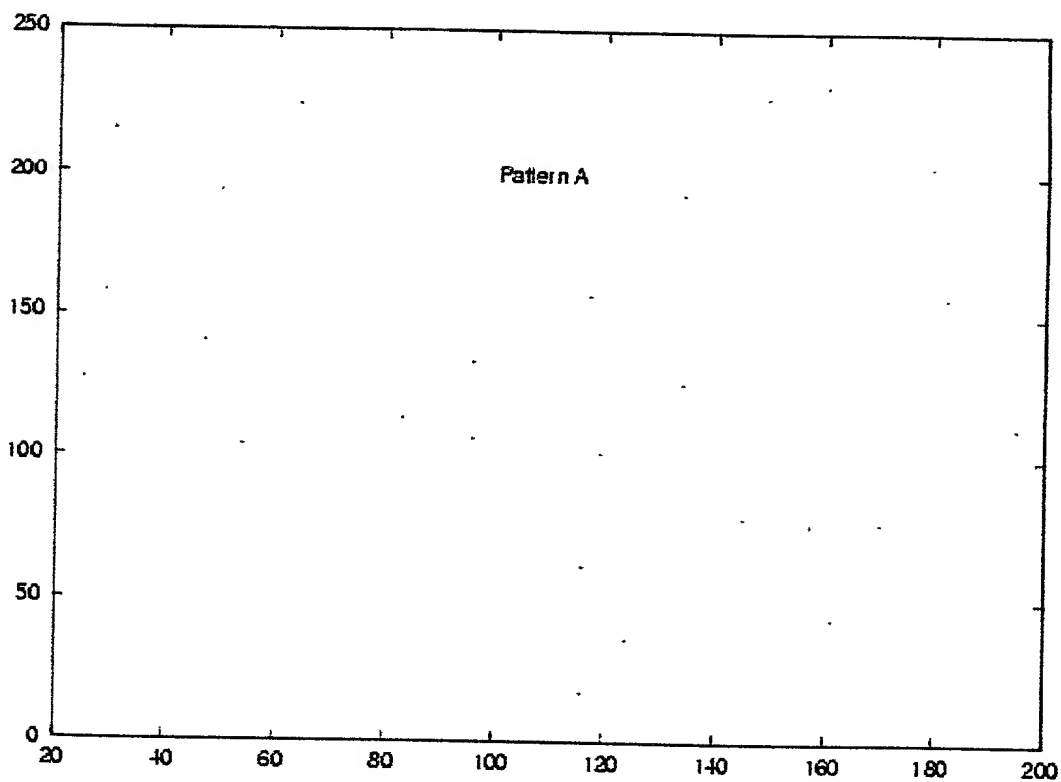


FIG. 6(a)

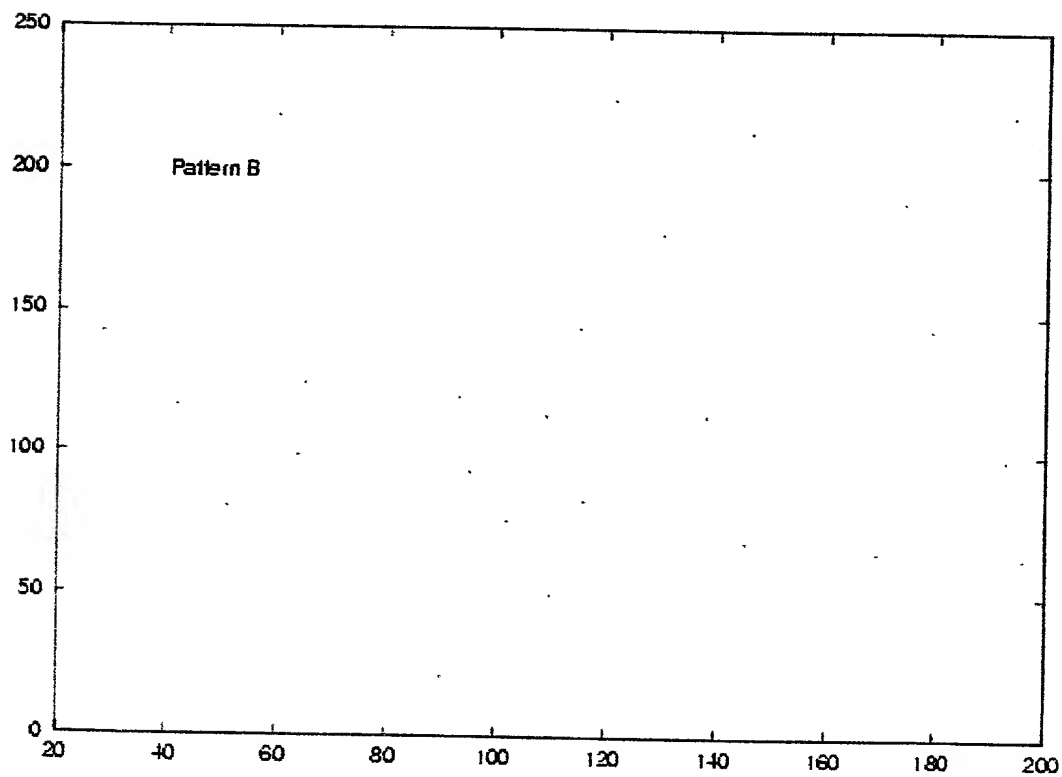


FIG. 6(b)

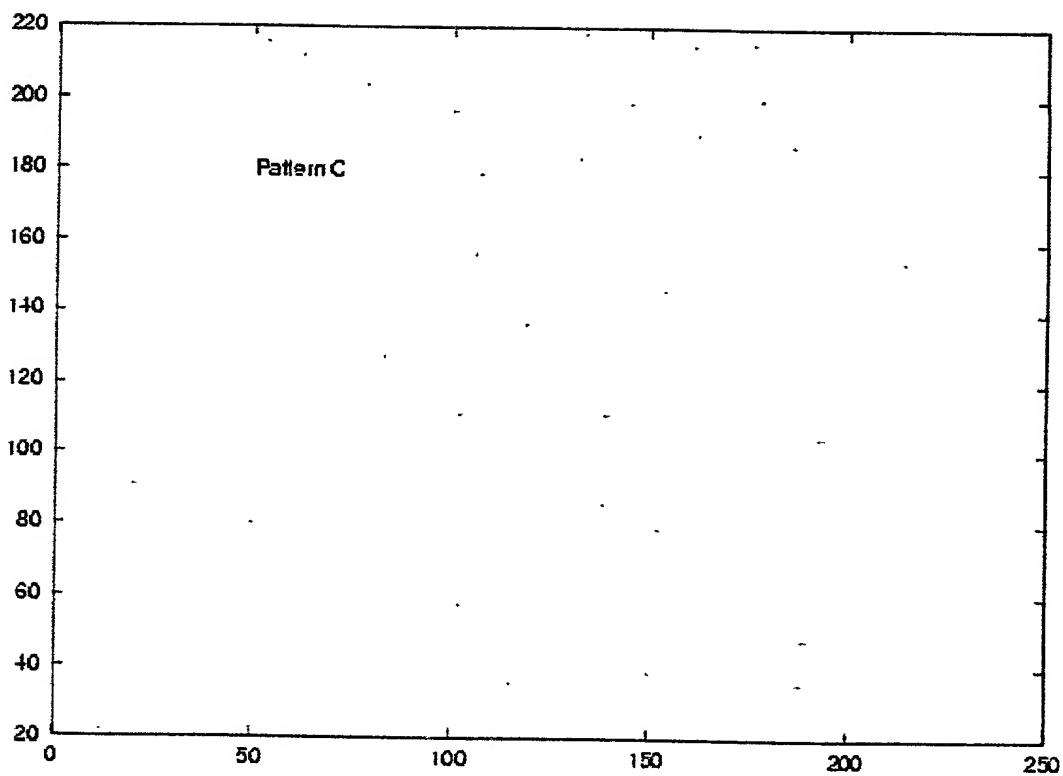


FIG. 6(c)

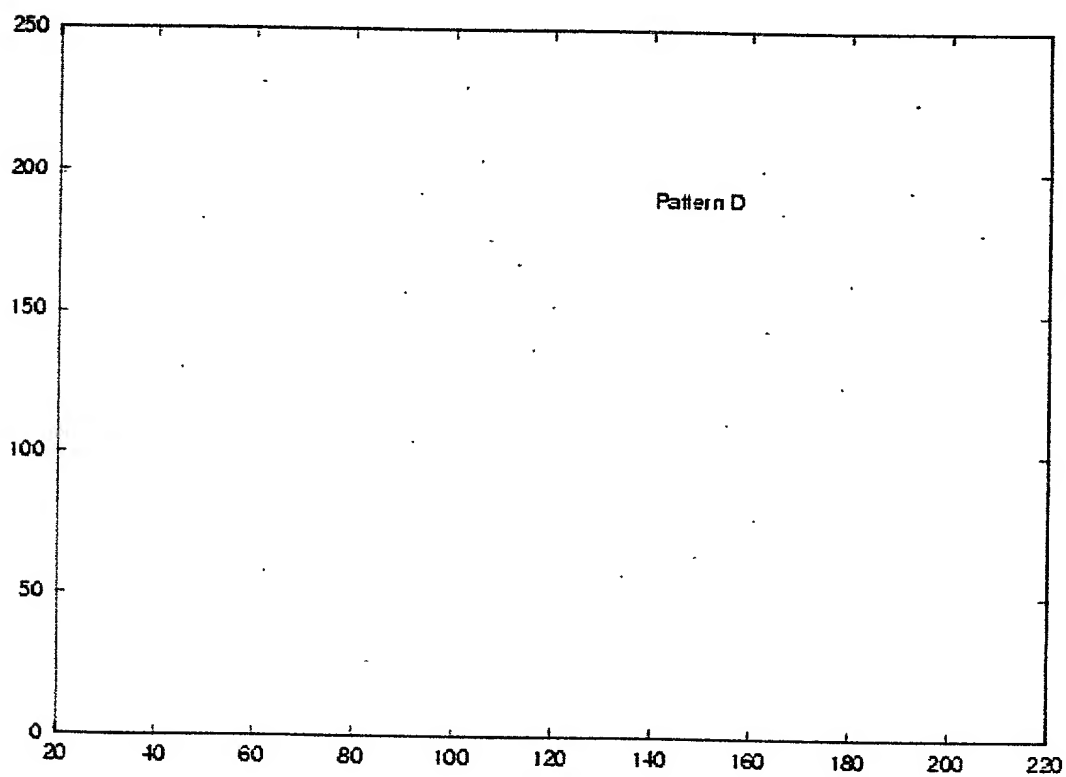


FIG. 6(d)

Pattern A (After Triangle Coarse Matching)

X	Y
182	157
195	111
149	227
227	157
179	203
170	78
96	133
134	193
96	107
145	79
161	44
50	194
29	158
116	62
134	126
119	102
54	104

FIG. 7(a)

Pattern B (Refrence Pattern After Triangle Coarse Matching)

X	Y
179	145
193	99
146	214
115	145
174	190
169	66
93	120
130	178
95	93
145	69
161	32
42	117
28	143
110	50
138	114
116	83
51	81

FIG. 7(b)

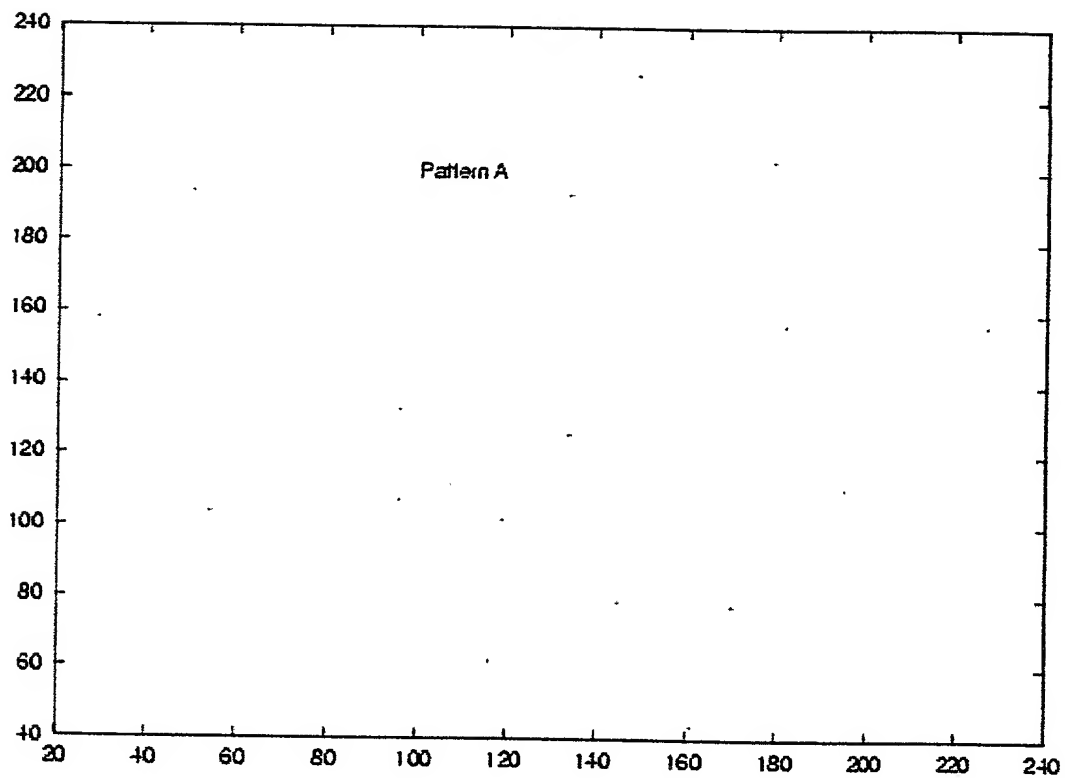


FIG. 7(c)

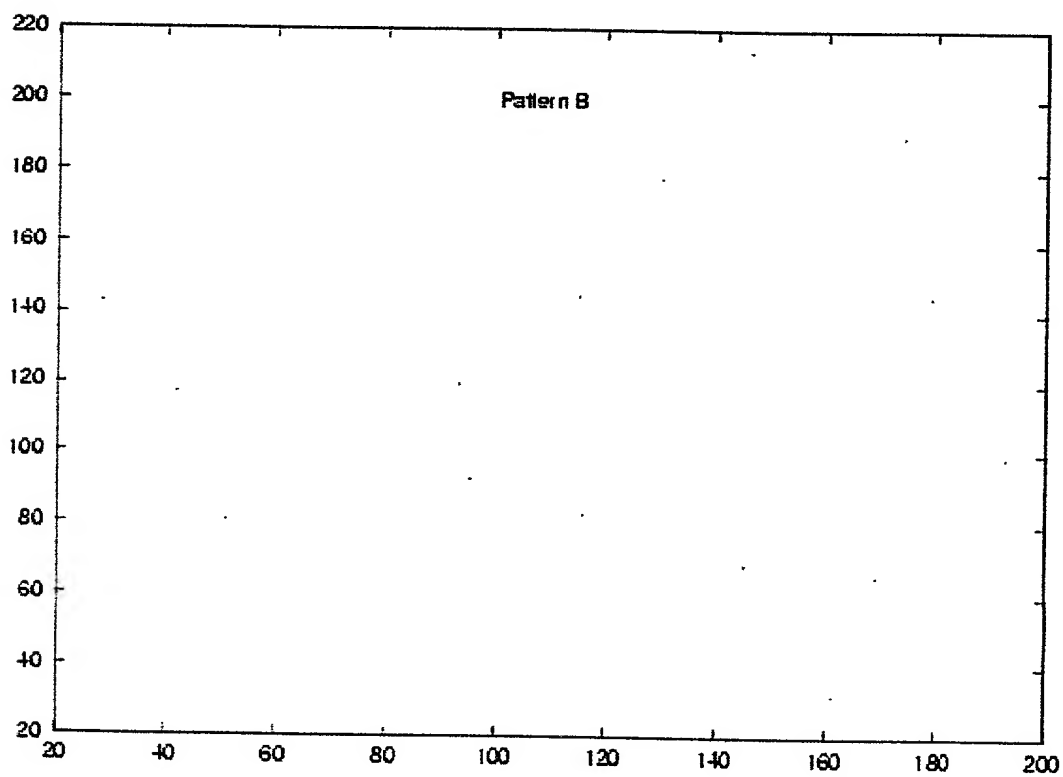


FIG. 7(d)

Non - similar Test Pattern
Pattern C (After Triangle Croase Matching)

X	Y
193	105
50	80
115	36
178	200

FIG. 7(e)

X	Y
198	111
62	58
126	40
162	201

FIG. 7(f)

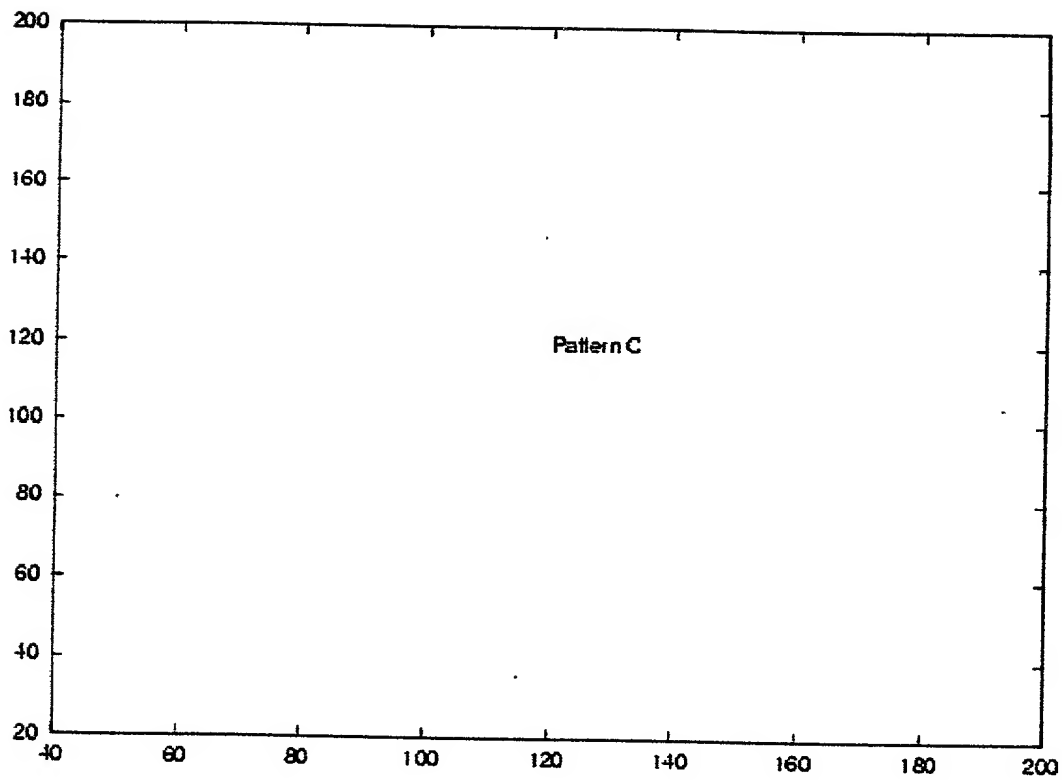


FIG. 7(g)

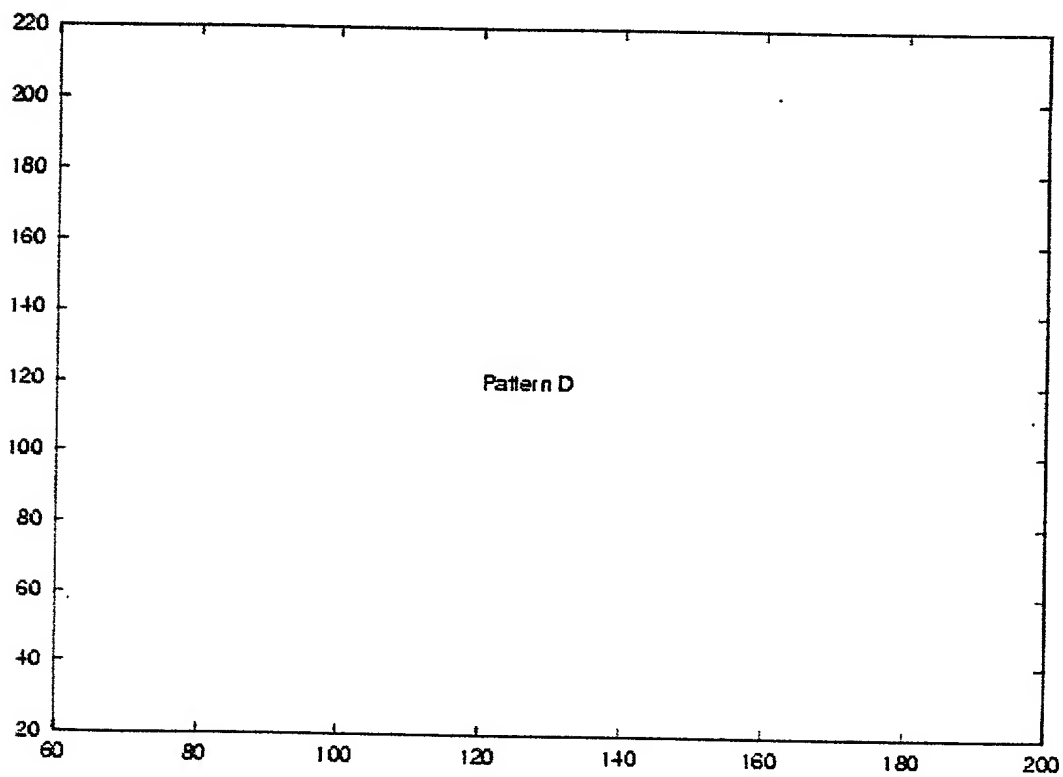


FIG. 7(h)

Pattern A (After Coord. Convert)

X	Y
179	144
193	98
144	214
114	143
175	190
168	65
93	119
130	179
94	93
143	66
160	31
46	179
26	142
115	48
131	112
117	88
52	89

FIG. 8(a)

Similar

Pattern B (Reference Pattern After triangle Coarse Matching)

X	Y
179	145
193	99
146	214
115	145
174	190
169	66
93	120
130	178
95	93
145	96
161	32
42	117
28	143
110	50
138	114
116	83
51	81

FIG. 8(b)

Non - similar Test Pattern
 Pattern C (After Triangle Croase Matching)

X	Y
198	111
60	66
131	31
170	203

FIG. 8(c)

X	Y
198	111
62	58
126	40
162	201

FIG. 8(d)

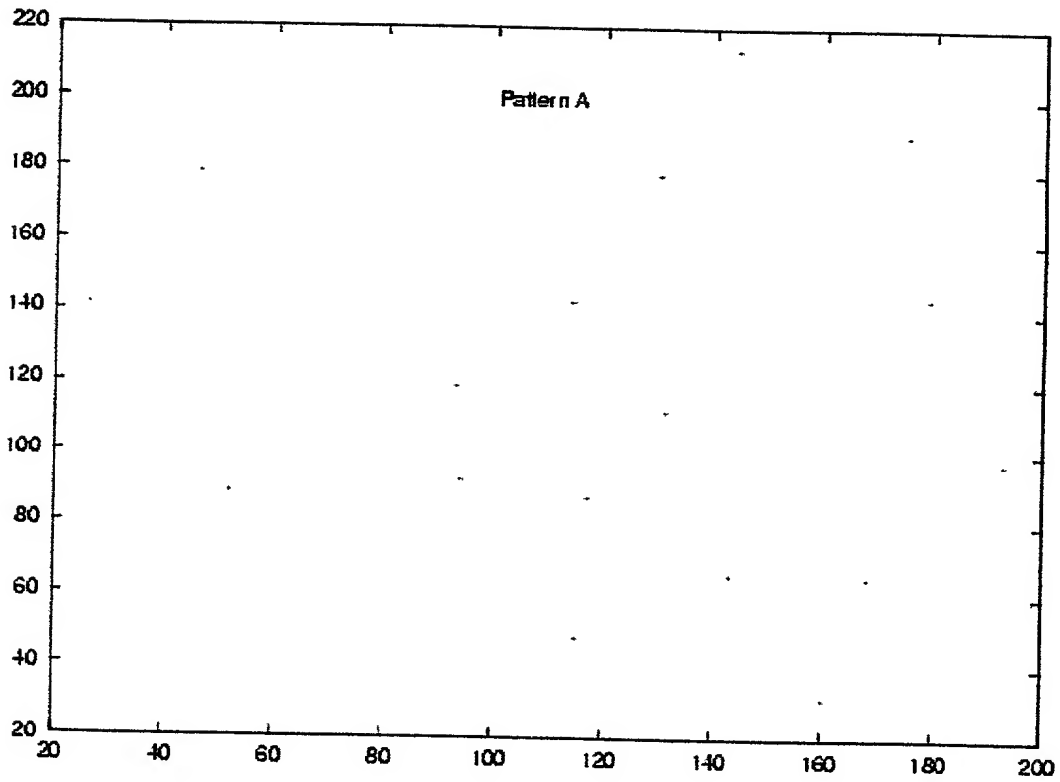


FIG. 9(a)

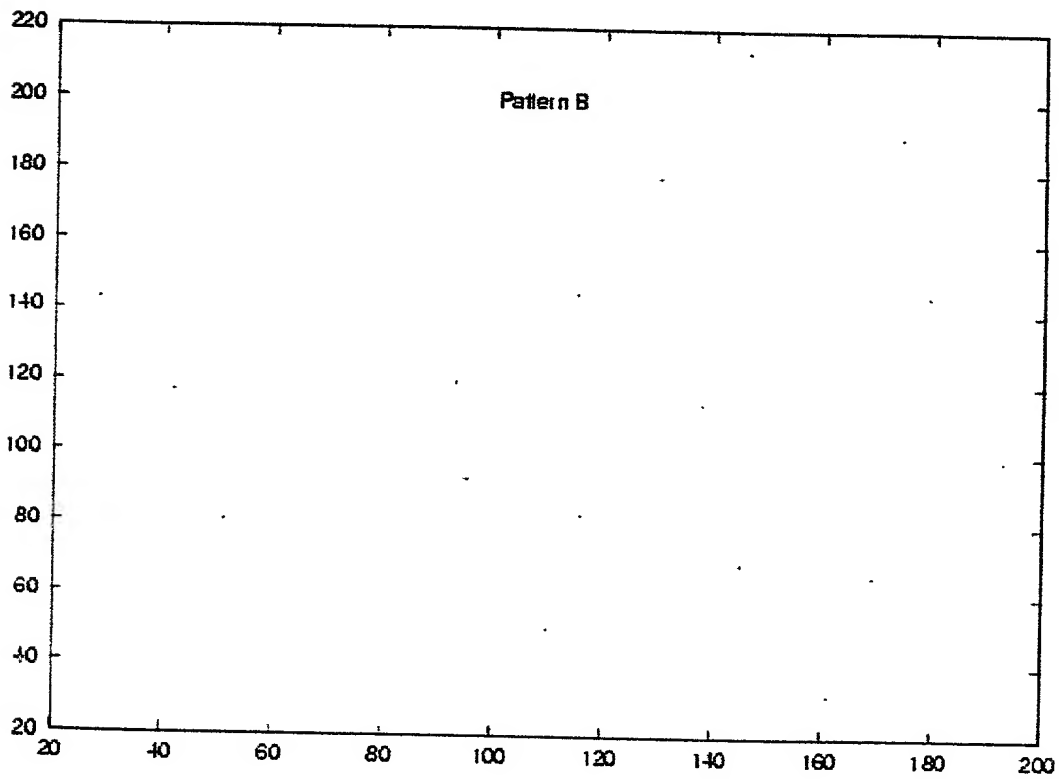


FIG. 9(b)

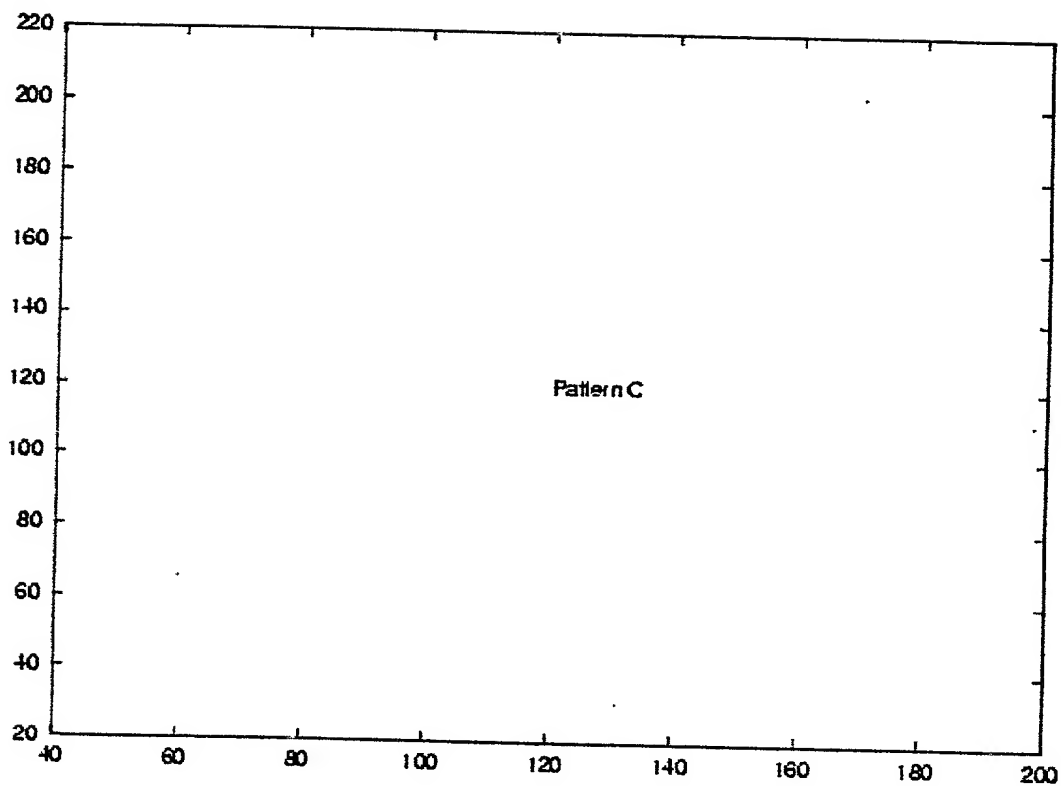


FIG. 9(c)

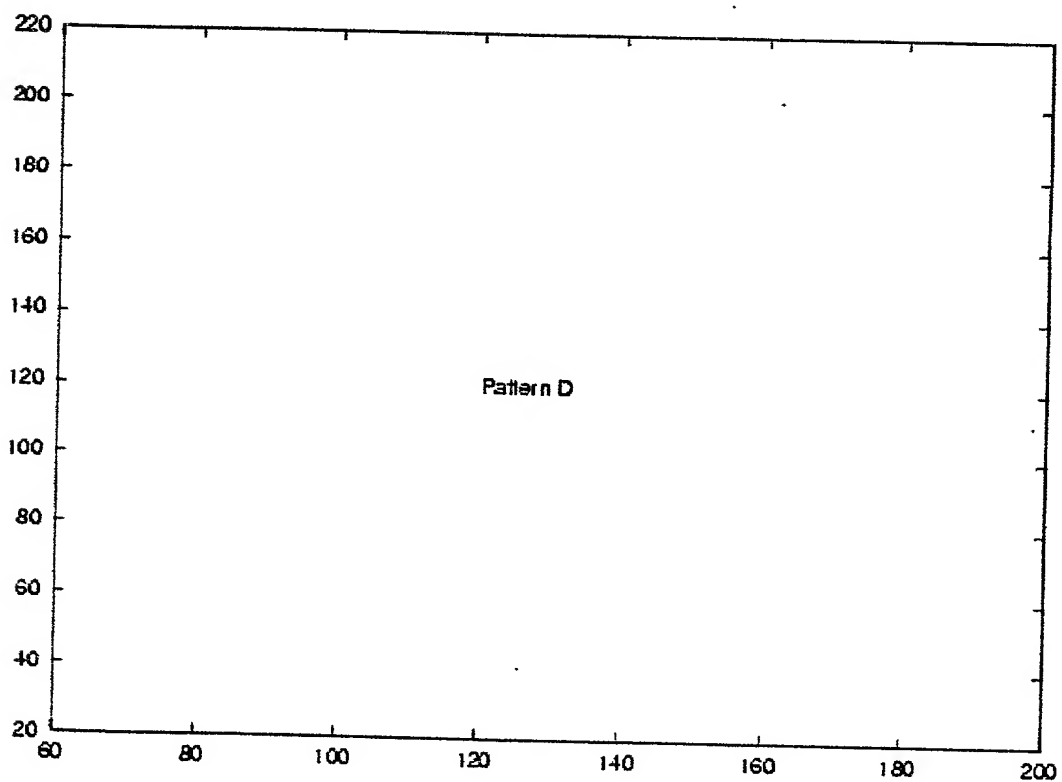


FIG. 9(d)

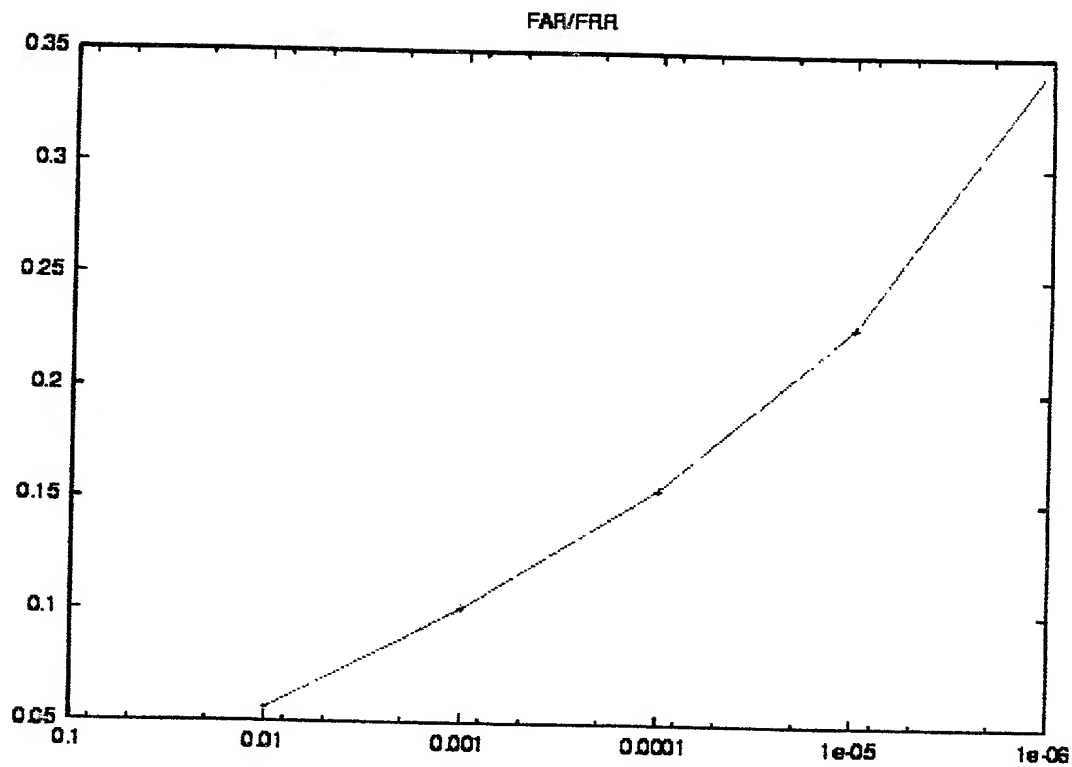


FIG. 10